

**METHOD AND SYSTEM FOR IMMERSION LITHOGRAPHY  
USING HIGH PH IMMERSION FLUID**

**ABSTRACT**

[0028] A method and system is disclosed for conducting immersion photolithography. The system includes at least one lens for transmitting a predetermined radiation on a predetermined product substrate, and a fluid volume in contact with the lens on its first end and with the product substrate on its second end, wherein the fluid volume has a molar concentration of hydroxyl ions more than  $10^{-7}$  mole per liter.